

hereby declare that: As a below name inventor

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

plural names are instead outs my	rylation/Vinylation of	Activated Carbons
the specification of which (check one):	(X) is attached hereto () was filed on or PCT International A was amended on	as United States Application Number Application Number, and(if applicable).
amended by any amendment restaura		he above identified specification, including the claims, as
		o patentability as defined in Title 37, Code of Federal
I hereby claim foreign priority benefit inventor's certificate listed below and a filing date before that of the applica-	s under Title 35, United Stat have also identified below a tion on which priority is clai	es Code, § 119(a)-(d) of any foreign application(s) for patent or ny foreign application for patent or inventor's certificate having med.
a ming date cons		Priority Claimed
Prior Foreign Application(s)		() Yes () No
(Number)	(Country)	(Day/Month/Year Filed) 10(x) of any United States Provisional application(s) listed
I hereby claim the benefit under Title below.	35, United States Code, § 1	19(e) of any United States Provisional application(s) listed
(Annication Number)	Filing Date)	19(e) of any United States Provisional application(s) listed
I hereby claim the benefit under Title below.	33, Office States 5553, 5	
I A IIIII LALION I VOITO DI	(Filing Date)	
	itle 35, United States Code, in Title 37, Code of Federal I national or PCT internations	120 of any United States application(s) listed below and, insofar not disclosed in the prior United States application in the manner § 112, I acknowledge the duty to disclose information which is Regulations, § 1.56 which became available between the filing all filing date of this application.
(11pp:://	is Date)	(Status - patented, pending, abandoned)
	ember 20, 1998 ng Date)	(Status - patented, pending, abandoned)
w. Mulifiedd, Rog. 140, 55, 44, 55, 55, 55, 55, 55, 55, 55, 55	ansact all business in the Pat	Cella, Reg. No. 38,099; Edward J. Kelly, Reg. No. 38,936; Donald 21; and Matthew P. Vincent, Reg. No. 36,709 as attorneys to ent and Trademark Office connected therewith.
	D. Wincent Esa at telet	phone number (617) 832-1299.

Address all telephone calls to Matthew P. Vincent, Esq. at telephone number (617) 832-1299.

Address all correspondence to:

Patent Group Foley, Hoag & Eliot LLP One Post Office Square Boston, Ma. 02109-2170



such willful false statements may jeopardize the variety
Full name of sole or first inventor (given name, family name) Stephen L. Buchwald
Full name of sole of first inventor (great many) Inventor's signature
Date Residence 25 Lancaster Road, Newton, MA 02158 Citizenship U.S.A. Post Office Address same as above
Residence 25 Lancaster Rolling 1
Citizenship U.S.A. Address same as above
Full name of second inventor (given name, family name)John P. Wolfe
S and inventor (given name, family name) John P. Wolfe
Full name of second inventor (given name, family name)John P. Wolfe Inventor's signature
Inventor's signature
Inventor's signature Date Date 18 Glencoe Street, #16, Brighton, MA 02135 Citizenship U.S.A.
Residence
Post Office Address same as above Full name of third inventor (given name, family name)
5. U
Full name of third inventor (given name, family name)
Inventor's signature
Date
Residence <u>Cucumos Conteg</u>
Residence Cucumber Cottage, 23 Tisher Orton. Citizenship U.S.A. Post Office Address same as above
Part Office Address same as above
Fost Office Address
Post Office Address same as above Full name of fourth inventor (given name, family name)Malisa Troutman Inventor's signature
Full name of longitude Malina V. Arouthian
Inventor's signature
Date
Residence 35 bound
Old Edward and an above
Full name of fifth inventor (given name, family name)Michael Palucki Inventor's signature
Full name of interest (given them)
Date 3 Horseshoe Drive, Belle Meade, New Jersey 08502
Date 3 Horseshoe Drive, Belle Meade, New Jersey 08502
Citizensinp O.S.A.
Full name of sixth inventor (given name, family name) <u>Ken Kamikawa</u> Inventor's signature
Full name of sixth inventor (given hand,
Inventor's signature
Date147 Winthrop Road, #4, Brookline, MA 02146 Citizenship U.S.A. Post Office Address same as above
Residence
Citizenship U.S.A. Address same as above
Post Office Address same as above
Andre Chieffi
Full name of sixth inventor (given name, family name)Andre Chieffi Inventor's signature
Date
Residence
Citizenship Brazil Post Office Address same as above
Post Unice Address same as above



As a below name the hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Arylation/Vinylation of Activated Carbons

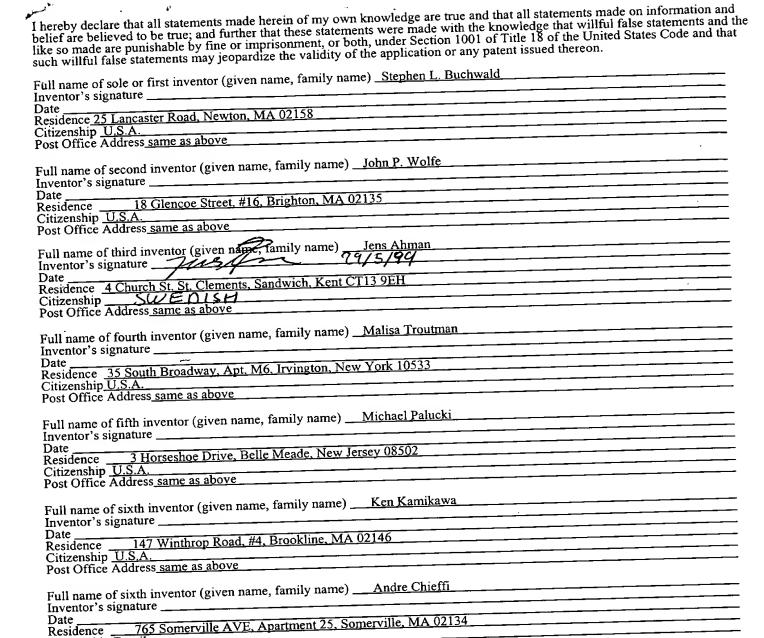
Ai	ylation, vinylation		
the specification of which (check one):	(X) is attached hereto () was filed on or PCT International was amended on	as United States Application Nur Application Number (if applicable).	nber , and
I hereby state that I have reviewed and u amended by any amendment referred to			
I acknowledge the duty to disclose infor Regulation, § 1.56.			liantion(a) for natent or
Regulation, § 1.56. I hereby claim foreign priority benefits inventor's certificate listed below and ha a filing date before that of the application	ander Title 35, United Sta ive also identified below on on which priority is cla	any foreign application for patent or in aimed.	iventor's certificate having
		Pri	ority Claimed
Prior Foreign Application(s)			() Yes () No
	(Country)	(Day/Month/Year Filed)	
(Number)	(Country)		al application(s) listed
(Number) I hereby claim the benefit under Title 3 below.	5, United States Code, §	119(e) of any Office States 130 (a)	••
(Application Number)	ling Date)		1 and instinction(s) listed
I hereby claim the benefit under Title 3 below.	55, United States Code, §	119(e) of any United States Provision	ar application(s) risted
(Application Funder)	iling Date)		
I hereby claim the benefit under Title as the subject matter of each of the cla provided by the first paragraph of Titl material to patentability as defined in date of the prior application and the name of the prior application and the prior application application and the prior application and the prior application application and the prior application application and the pr	35, United States Code, § ims of this application is e 35, United States Code, Title 37, Code of Federal ational or PCT internation	\$ 120 of any United States application(not disclosed in the prior United State, \$ 112, I acknowledge the duty to disc Regulations, \$ 1.56 which became avenal filing date of this application.	ailable between the filing
(Application Number) (Filing	nber 20, 1997 Date)	pending (Status - patented, pending, abando	oned)
(Application)	<u>aber 20, 1998</u> Date)	pending (Status - patented, pending, aband	
I hereby appoint Beth E. Arnold, Reg W. Muirhead, Reg. No. 33,978; Anita prosecute this application and to tran	. No. 35,430; Charles H. a Varma, Reg. No. P-43,2 sact all business in the Pa	Cella, Reg. No. 38,099; Edward J. Ke 221; and Matthew P. Vincent, Reg. No stent and Trademark Office connected	lly, Reg. No. 38,936; Donald . 36,709 as attorneys to therewith.

Address all telephone calls to Matthew P. Vincent, Esq. at telephone number (617) 832-1299.

Address all correspondence to:

Patent Group Foley, Hoag & Eliot LLP One Post Office Square Boston, Ma. 02109-2170





Citizenship Brazil

Post Office Address same as above



As a below named in the late that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Arylation/Vinylation of Activated Carbons

the specification of which (check one):	(X) is attached hereto () was filed on or PCT International was amended on	as United States Applicatio Application Number (if applicable).	n Number , and
I hereby state that I have reviewed and us amended by any amendment referred to	nderstand the contents of above.	the above identified specification	n, including the claims, as
I acknowledge the duty to disclose information, § 1.56.			
I hereby claim foreign priority benefits u inventor's certificate listed below and ha a filing date before that of the application	ve aiso identified below a	my loreign application for patent	eign application(s) for patent or or inventor's certificate having
Prior Foreign Application(s)			Priority Claimed
	·		() Yes () No
(1.44.104-)	Country)	(Day/Month/Year Filed)	
I hereby claim the benefit under Title 35 below.	, United States Code, § 1	19(e) of any United States Provis	sional application(s) listed
(Application Number) (Fili	ng Date)		
I hereby claim the benefit under Title 35 below.	, United States Code, § 1	19(e) of any United States Provis	sional application(s) listed
(Application Number) (Fili	ng Date)		
I hereby claim the benefit under Title 35 as the subject matter of each of the claim provided by the first paragraph of Title material to patentability as defined in Tidate of the prior application and the national statement o	, United States Code, § 1 ns of this application is no 35, United States Code, § tle 37, Code of Federal R onal or PCT international	20 of any United States application disclosed in the prior United States, I acknowledge the duty to egulations, § 1.56 which became filing date of this application.	on(s) listed below and, insofar tates application in the manner disclose information which is available between the filing
60/065,970 November (Filing Date of Complete Com	er 20, 1997 – ate)	pending (Status - patented, pending, aba	ndoned)
09/196,855 November (Filing Date of Control	e <u>r 20, 1998</u> ate)	pending (Status - patented, pending, aba	indoned)
I hereby appoint Beth E. Arnold, Reg. N. W. Muirhead, Reg. No. 33,978; Anita V prosecute this application and to transact	'arma Reg No P-43//I	· and Matthew P. vincent, Reg.	(NO. DO, 107 as allotheys to
Address all telephone calls to Matthew	P. Vincent, Esq. at teleph	one number (617) 832-1299.	
Address all correspondence to:	Patent Group Foley, Hoag & Elio One Post Office Squ Boston, Ma. 02109-	uare	



Full name of sole or first inventor (given name, family name) Stephen L. Buchwald Inventor's signature
Inventor's signature
2)24144
Posidence 25 Lancaster Road, Newton, MA 02138
Citizenshin II S A
Citizenship U.S.A. Post Office Address same as above
Tost Office Management
Full name of second inventor (given name, family name) John P. Wolfe
Full name of second inventor (giver name, faithly name)
Date M.C. D.:-ham. M.A. 02125
Residence 18 Glencoe Street, #16, Brighton, MA 02155 Citizenship U.S.A. Post Office Address same as above
Does Office Address same as above
FOST OTHER Address same at 22
Full name of third inventor (given name, family name)
Inventor's signature
Inventor 5 signature
Date
Residence Submitted Consultations and the Consultation of the Cons
Citizenship U.S.A.
Post Office Address same as above
10st Office Address
Full name of fourth inventor (given name, family name)Malisa Troutman
Inventor's signature
Date
Citizanchin II \ \ \ \
Post Office Address same as above
Full name of fifth inventor (given name, family name)Michael Palucki
Inventor's signature
Inventor's signature
Date 3 Horseshoe Drive, Belle Meade, New Jersey 08502
Residence Total Translation
Citizenship U.S.A. Post Office Address same as above
Full name of sixth inventor (given name, family name) Ken Kamikawa
Inventor's signature
Date
Residence 147 Yimunop Read, 1.3
Citizenship U.S.A. Post Office Address same as above
Fost Office Address Same at 1991
Andre Chieffi
Full name of sixth inventor (giveninality failing)
inventor's signature provided the state of t
Date Use 16 Tong 18 AVE Apartment 25, Somerville, MA 02134
Full name of sixth inventor (given name, family name)Andre Chieffi Inventor's signature
Citizenship Brazil Post Office Address same as above
POST UTILICE AUDITESS SAINE AS AUDITE



eby declare that: As a below name inventor

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Arylation/Vinylation of Activated Carbons

	y interest of the second		
the specification of which (check one):	(X) is attached hereto () was filed on or PCT International was amended on	as United States Application N Application Number (if applicable).	lumber , and
I hereby state that I have reviewed and amended by any amendment referred to	understand the contents of above.	the above identified specification, i	ncluding the claims, as
. I acknowledge the duty to disclose info Regulation, § 1.56.			
I hereby claim foreign priority benefits inventor's certificate listed below and ha filing date before that of the applicati	ave also identified below a	illy loicign application for passess	n application(s) for patent or inventor's certificate having
Prior Foreign Application(s)		P	riority Claimed
Prior Foreign Application(s)			() Yes () No
(Number)	(Country)	(Day/Month/Year Filed)	
I hereby claim the benefit under Title 3 below.	5, United States Code, § 1	19(e) of any United States Provision	nal application(s) listed
(Application Number) (Fi	ling Date)		
I hereby claim the benefit under Title 3 below.	35, United States Code, § 1	19(e) of any United States Provision	nal application(s) listed
(Application Number) (F	ling Date)		
I hereby claim the benefit under Title as the subject matter of each of the cla provided by the first paragraph of Title material to patentability as defined in date of the prior application and the na	e 35, United States Code, §	112, I acknowledge the duty to dis	close information which is
60/065,970 Novem (Application Number) (Filing	<u>ber 20, 1997</u> Date)	pending (Status - patented, pending, aband	loned)
09/196,855 Novem (Application Number) (Filing	<u>ber 20, 1998</u> Date)	pending (Status - patented, pending, aband	loned)
I hereby appoint Beth E. Arnold, Reg	No. 35,430; Charles H. C. Varma, Reg. No. P-43,22	ella, Reg. No. 38,099; Edward J. Ke 1; and Matthew P. Vincent, Reg. No.	lly, Reg. No. 38,936; Donald 36,709 as attorneys to

W. Muirhead, Reg. No. 33,978; Anita Varma, Reg. No. P-43,221; and Matthew P. Vincent, Reg. No. 36,709 as attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

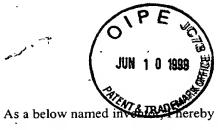
Address all telephone calls to Matthew P. Vincent, Esq. at telephone number (617) 832-1299.

Address all correspondence to:

Patent Group Foley, Hoag & Eliot LLP One Post Office Square Boston, Ma. 02109-2170



Full name of sole or first inventor (given name, family name) Stephen L. Buchwald
Inventor's signature
Date
Residence 25 Lancaster Road, Newton, MA 02158
Citizenship U.S.A. Post Office Address same as above
Full name of second inventor (given name, family name) John P. Wolfe
Full name of second inventor (given name, family name) John T. Trotte
Inventor's signature
Date MA 02125
Citizenship U.S.A.
Residence 18 Glencoe Street, #16, Brighton, IVA 02133 Citizenship U.S.A. Post Office Address same as above
Full name of third inventor (given name, family name)
Full name of third inventor (given name, family name)
Inventor's signature
Date
Residence Cultumori Cottage, 27 1 Bactory
Citizenship U.S.A.
Citizenship U.S.A. Post Office Address same as above
Full name of fourth inventor (given name, family name) Malisa Troutman
Inventor's signature
Date
Citizanshin II S A
Post Office Address same as above
Full name of fifth inventor (given name, family name) Michael Palucki Inventor's signature Manuel Palucki
Inventor's signature Medical Palucki
Date for 25 1949 Residence 3 Horseshoe Drive, Belle Meade, New Jersey 08502
Residence 3 Horseshoe Drive, Belle Meade, New Jersey 08502
Citizenship U.S.A. Post Office Address same as above
Full name of sixth inventor (given name, family name) Ken Kamikawa
Inventor's signature
Inventor's signature
Date
Citizenship U.S.A.
Citizenship U.S.A. Post Office Address same as above
Full name of sixth inventor (given name, family name)Andre Chieffi
Inventor's signature
Date
Residence //o Somerville Ave. Apartificiti 23, Somerville, 1977
Citizenship Brazil Post Office Address same as above
FUNI CHIEC AUGICOS SAIDE AS ACCES



hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Arylation/Vinylation of Activated Carbons

the specification of which (check one):	(X) is attached he () was filed on or PCT Internation was amended on	as United States Application	n Number , and
I hereby state that I have reviewed and ur amended by any amendment referred to a	nderstand the content above.	s of the above identified specification	n, including the claims, as
. I acknowledge the duty to disclose inform Regulation, § 1.56.	nation which is mater	rial to patentability as defined in Title	e 37, Code of Federal
I hereby claim foreign priority benefits un inventor's certificate listed below and have a filing date before that of the application	e also identified belo	ow any foreign application for patent	eign application(s) for patent or or inventor's certificate having
Prior Foreign Application(s)			Priority Claimed
(Number) ((Country)	(Day/Month/Year Filed)	() Yes () No
I hereby claim the benefit under Title 35, below.		,	ional application(s) listed
(Application Number) (Filin	ig Date)		
I hereby claim the benefit under Title 35, below.	United States Code,	§ 119(e) of any United States Provisi	ional application(s) listed
(Application Number) (Filin	ng Date)		
I hereby claim the benefit under Title 35, as the subject matter of each of the claims provided by the first paragraph of Title 3 material to patentability as defined in Title date of the prior application and the nation	s of this application i 5, United States Code le 37, Code of Federa	s not disclosed in the prior United Sta e, § 112, I acknowledge the duty to d al Regulations, § 1.56 which became a	tec application in the manner
60/065,970 November (Application Number) (Filing Date	: 20, 1997 te)	pending (Status - patented, pending, abar	idoned)
09/196,855 November (Application Number) (Filing Date	: 20, 1998 te)	pending (Status - patented, pending, abar	idoned)
I hereby appoint Beth E. Arnold, Reg. No W. Muirhead, Reg. No. 33,978; Anita Va prosecute this application and to transact	rma, Reg. No. P-43,	221; and Matthew P. Vincent, Reg. N	o. 36,709 as attorneys to
Address all telephone calls to Matthew P.	. Vincent, Esq. at tele	ephone number (617) 832-1299.	
Address all correspondence to:	Patent Group Foley, Hoag & E One Post Office Boston, Ma. 021	Square	





Full name of sole or first inventor (given name, family name) Stephen L. Buchwald
Inventor's signature
Residence 25 Lancaster Road, Newton, MA 02158
Citizenship U.S.A.
Citizenship U.S.A. Post Office Address same as above
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Full name of second inventor (given name, family name)
Inventor's signature
Date
Post Office Address same as above
Full name of third inventor (given name, family name)
Inventor's signature
Date
Residence Odeamoer Comage 20 2 1.0.05 2 20 21.0.05
Citizenship U.S.A.
Post Office Address same as above
Full name of fourth inventor (given name, family name) Malisa Troutman
Inventor's signature
Date
Residence 35 South Broadway, Apt. M6, Irvington, New York 10533
Citizenship U.S.A. Post Office Address same as above
Post Office Address same as above
The second of th
Full name of fifth inventor (given name, family name) Michael Palucki
Inventor's signature
Date
Citizenship, U.S.A.
Post Office Address same as above
Full name of sixth inventor (given name, family name) Ken Kamikawa
Inventor's signature Went Manifesture Date 4/2/99 Residence 147 Winthrop Road, #4, Brookline, MA 02146
Date #7.29.34 Winthron Road #4 Brookline, MA 02146
Citizenship U.S.A.
Citizenship U.S.A. Post Office Address same as above
Full name of sixth inventor (given name, family name) Andre Chieffi
Inventor's signature
Date
Citizenship Brazil
Post Office Address same as above